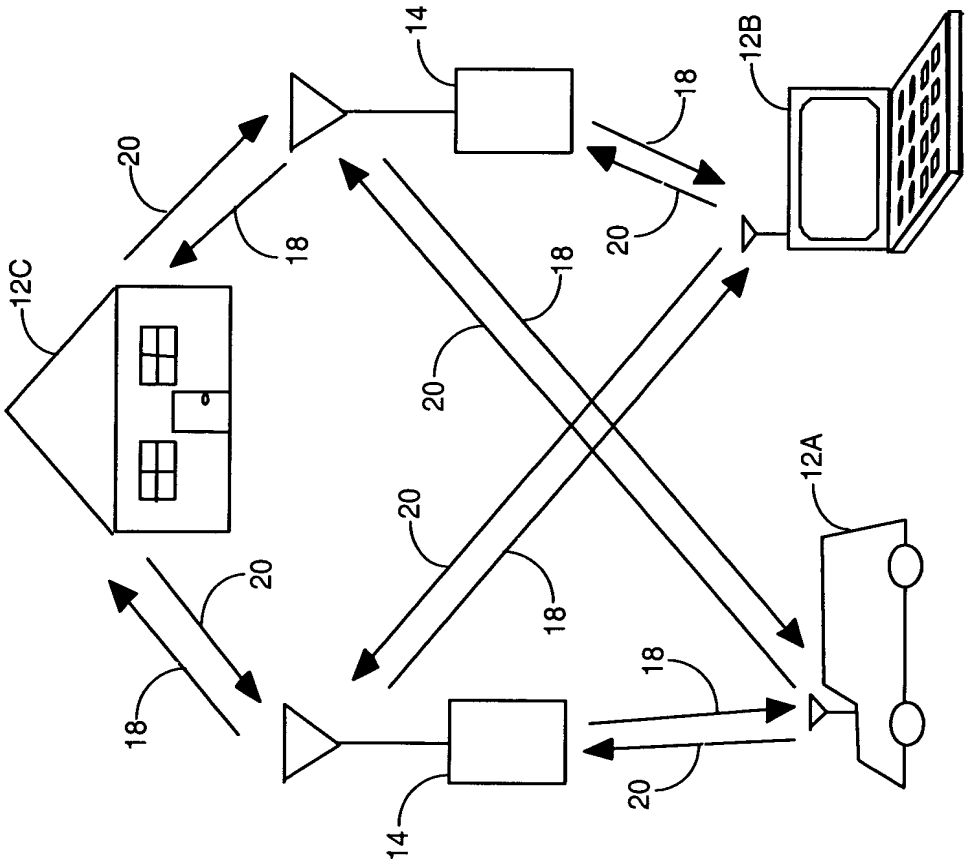

FIG. 1 PRIOR ART

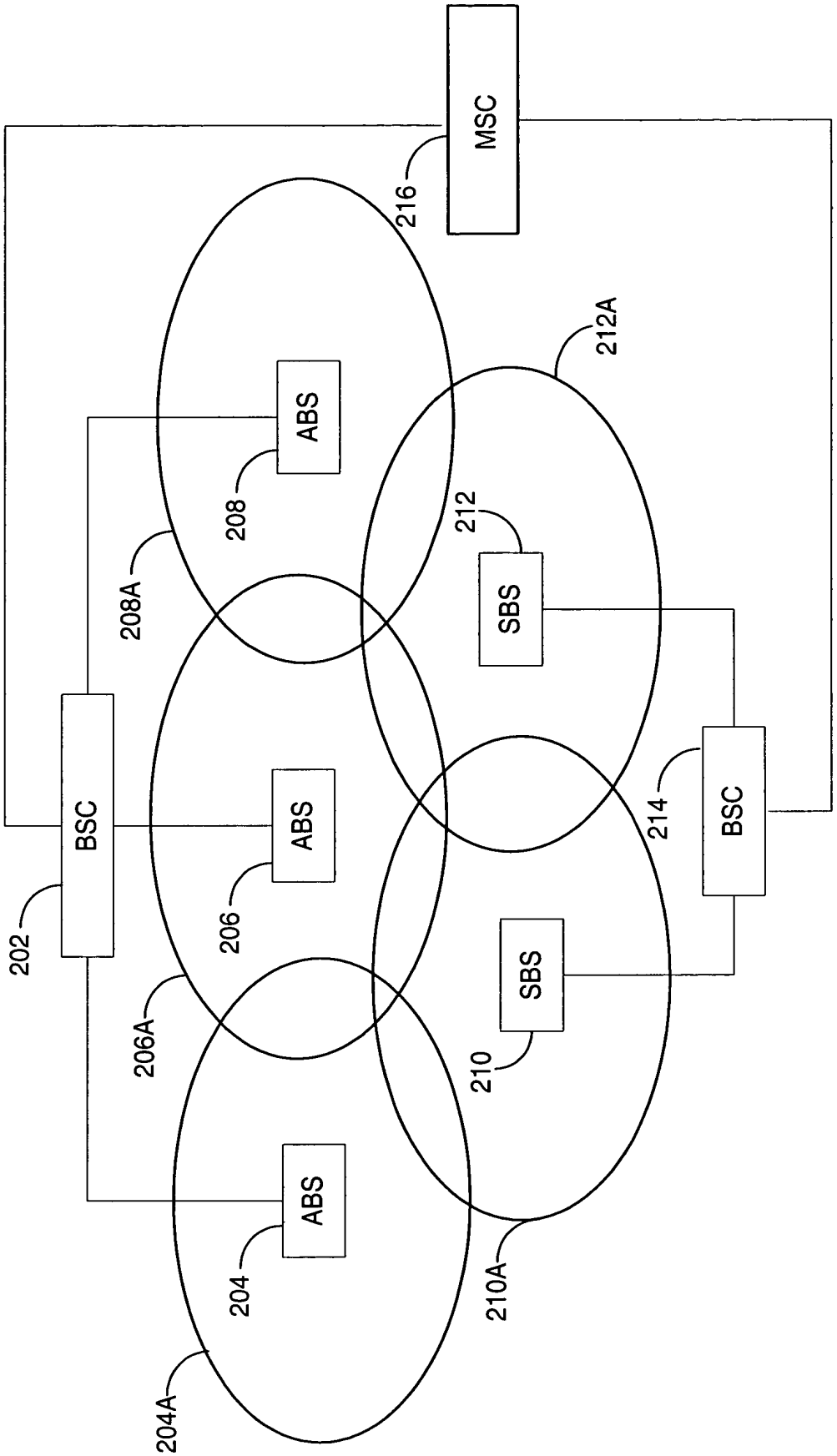
MSC
216
212A
ABS
208
208A
212
SBS
BSC
202
ABS
206
206A
214
BSC
SBS
210
210A
ABS
204
204A

FIG. 2

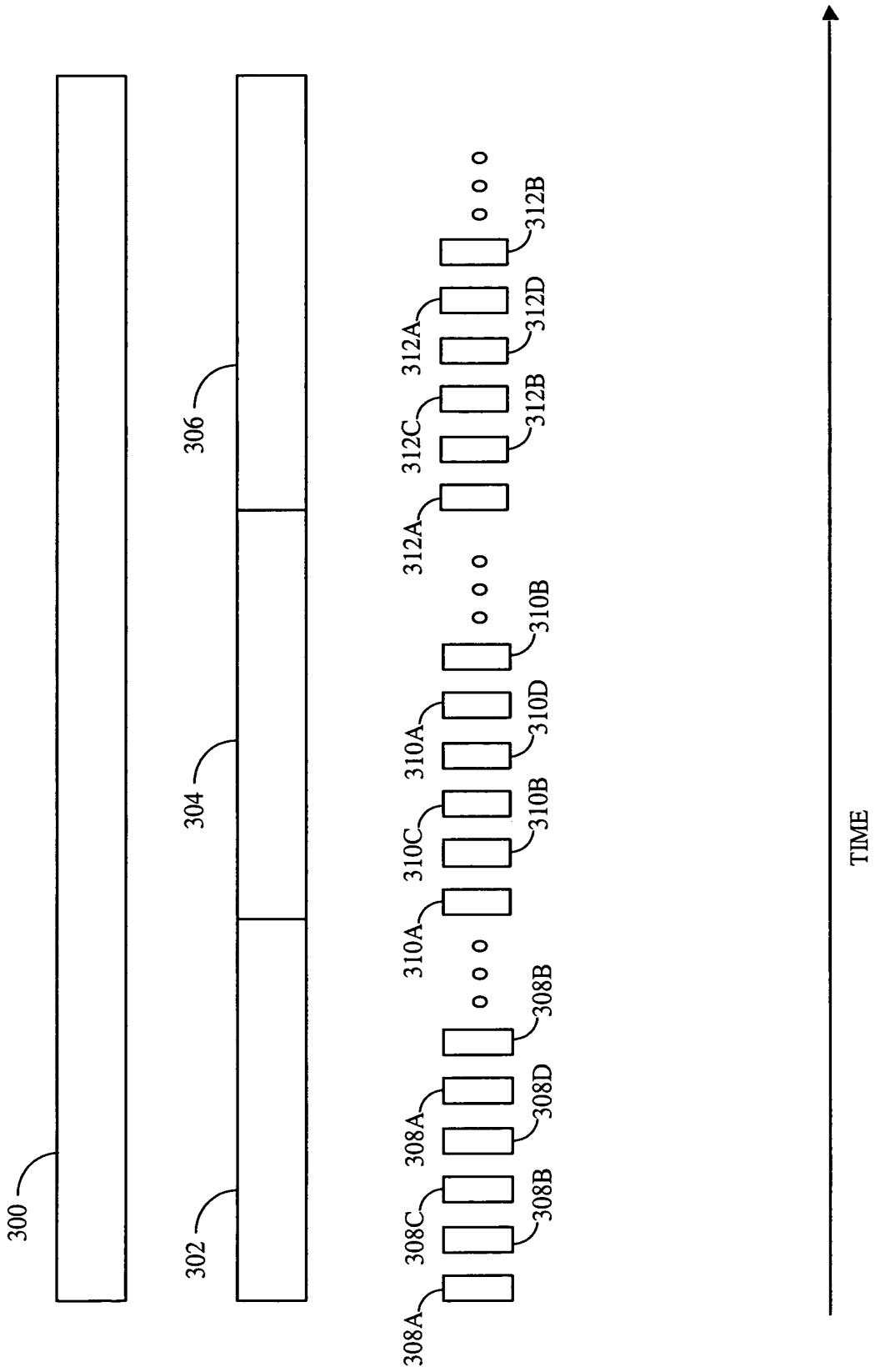
300
302
304
306
308A
308C
308B
308A
308D
308B
310A
310C
310B
310A
310D
310B
312A
312C
312B
312A
312D
312B
TIME

FIG. 3

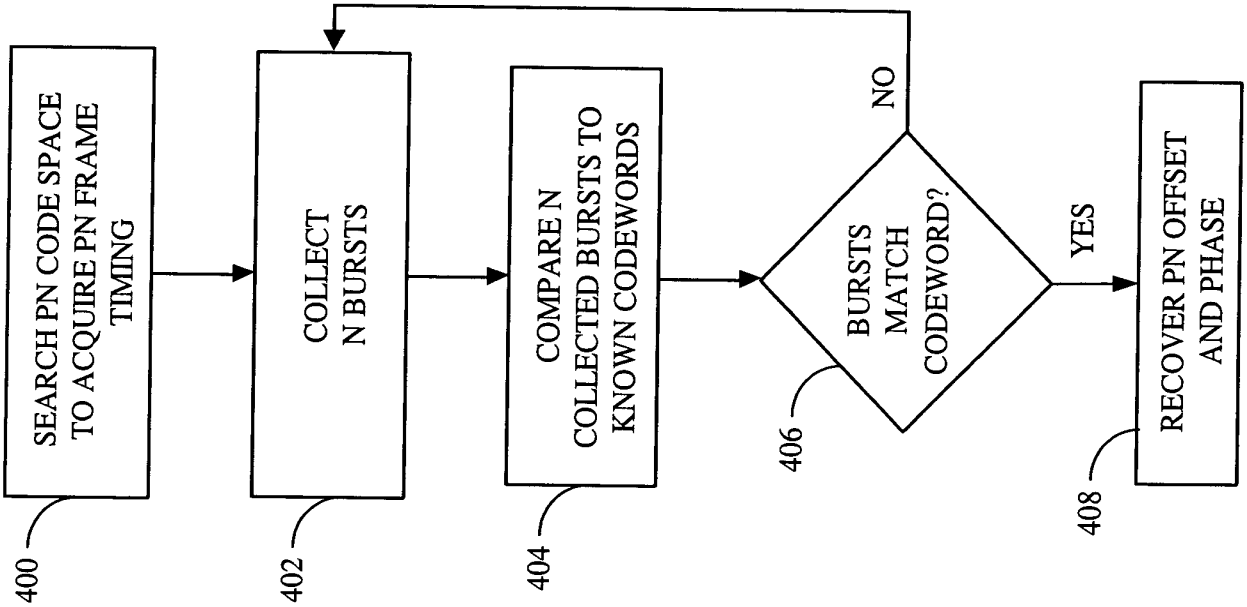
SEARCH PN CODE SPACE TO ACQUIRE PN FRAME TIMING
COLLECT N BURSTS
COMPARE N COLLECTED BURSTS TO KNOWN CODEWORDS
BURSTS MATCH CODEWORD?
NO
YES
RECOVER PN OFFSET AND PHASE
400
402
404
406
408

FIG. 4

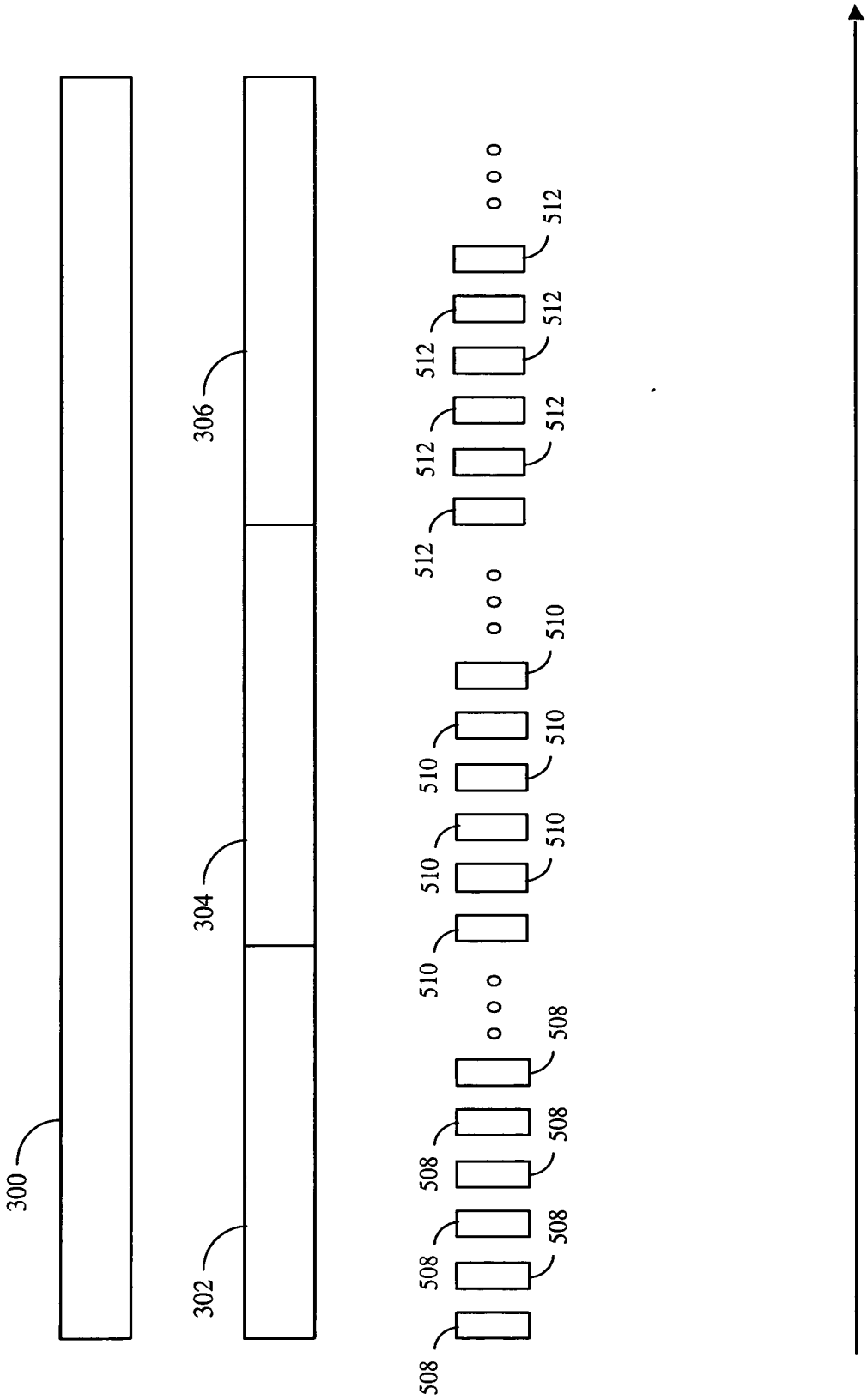

FIG. 5

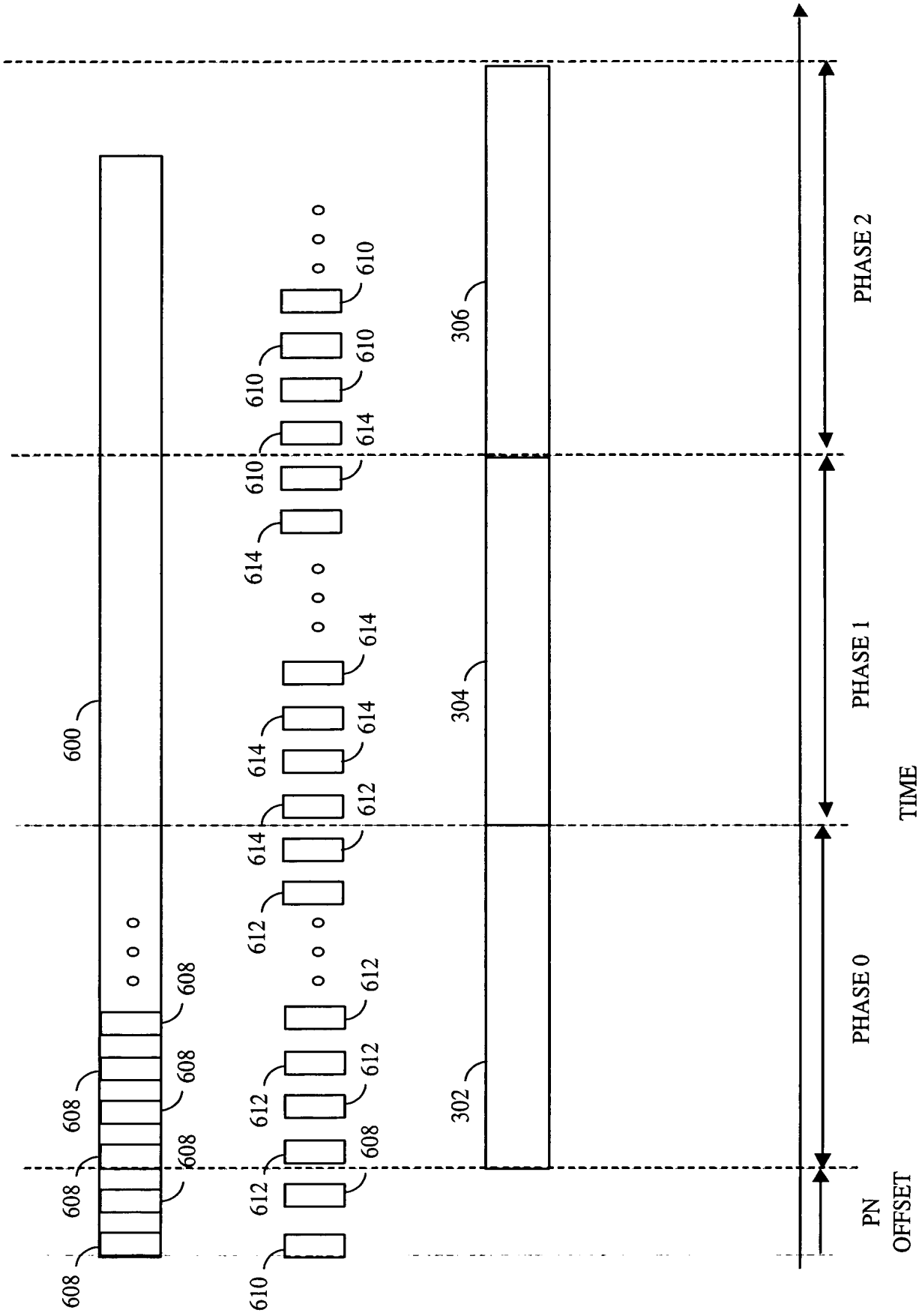
600
608
610
612
614
302
304
306
PHASE 0
PHASE 1
PHASE 2
PN OFFSET
TIME

FIG. 6

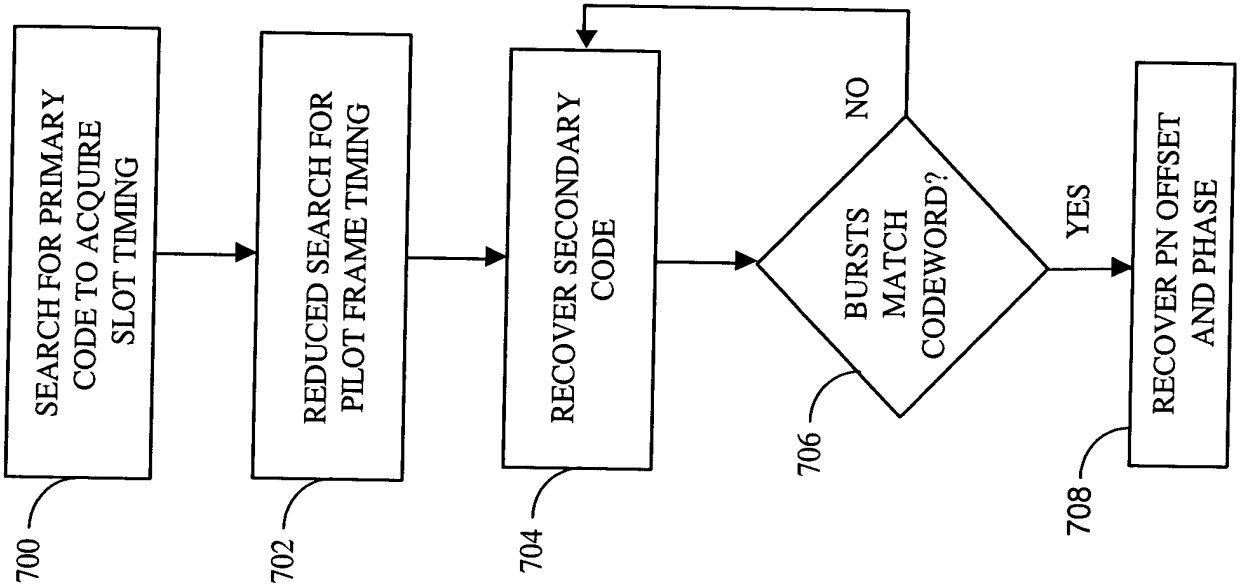
SEARCH FOR PRIMARY CODE TO ACQUIRE SLOT TIMING
700
REDUCED SEARCH FOR PILOT FRAME TIMING
702
RECOVER SECONDARY CODE
704
BURSTS MATCH CODEWORD?
706
NO
YES
RECOVER PN OFFSET AND PHASE
708

FIG. 7

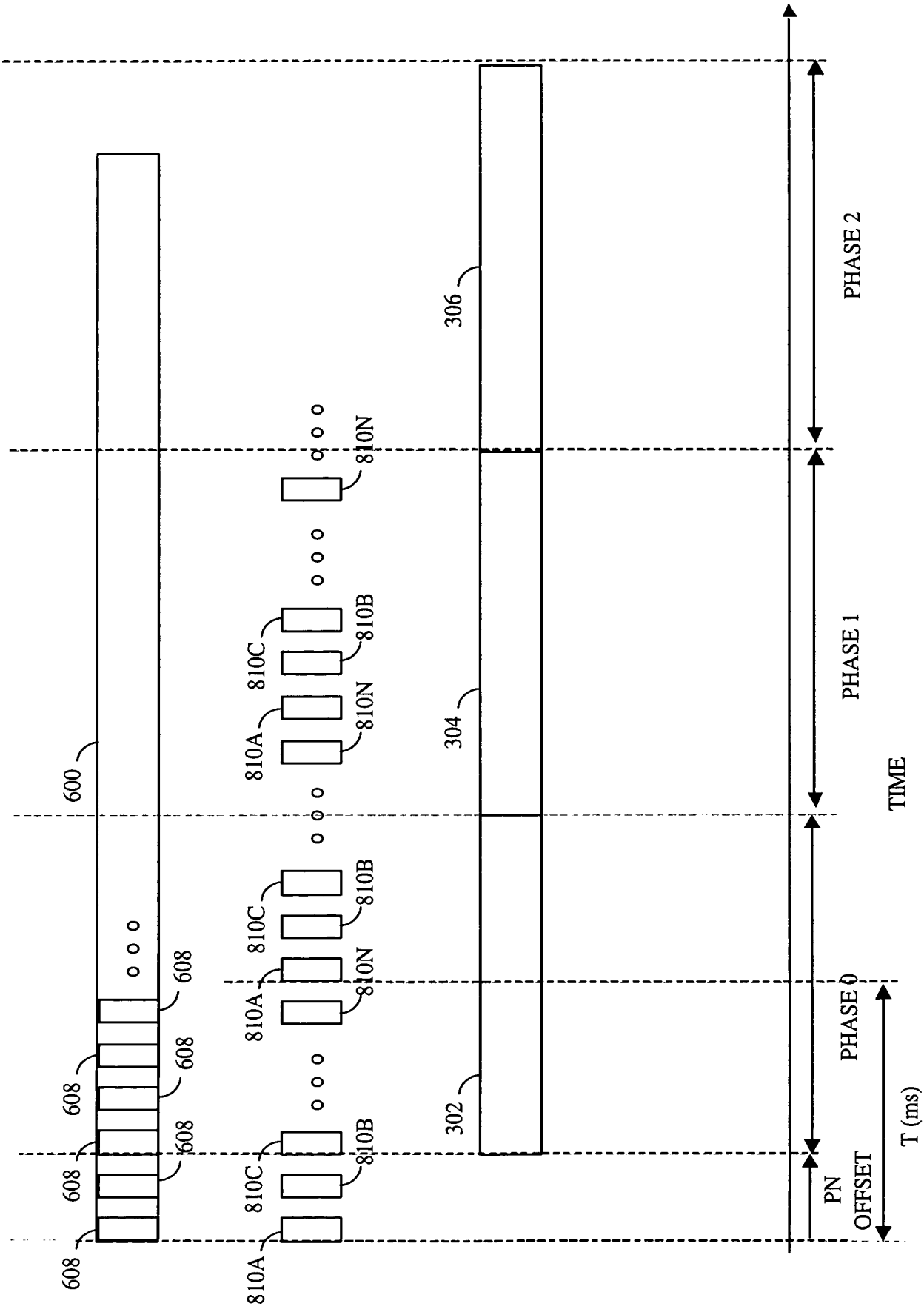
600
608
608
608
608
608
608
810A
810C
810B
810N
810A
810C
810B
810N
810A
810C
810B
810N
302
304
306
PHASE 0
PHASE 1
PHASE 2
TIME
PN OFFSET
T (ms)

FIG. 8

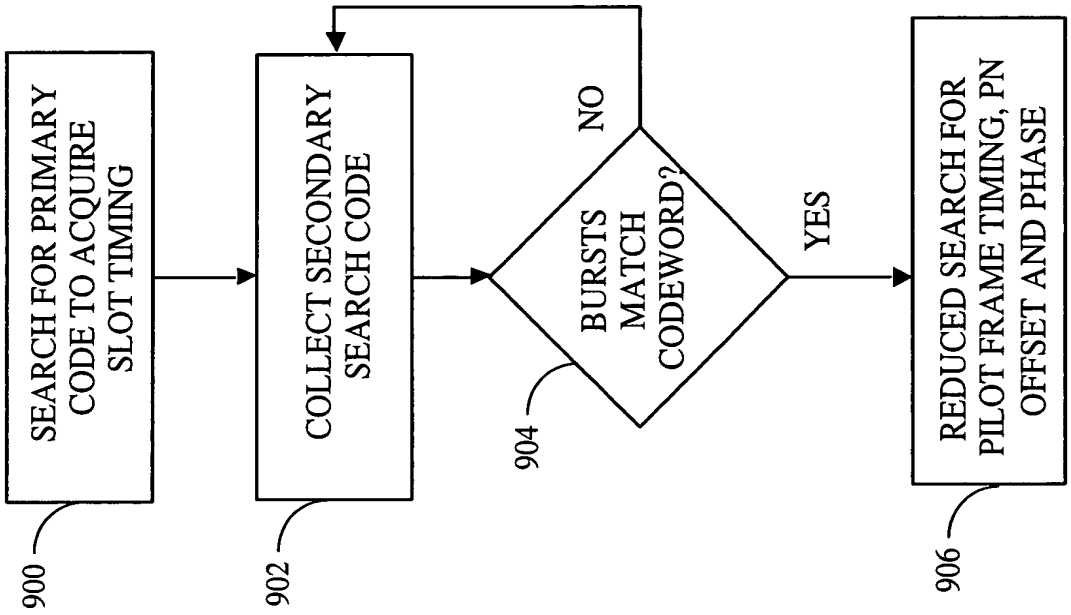
SEARCH FOR PRIMARY CODE TO ACQUIRE SLOT TIMING
900
COLLECT SECONDARY SEARCH CODE
902
BURSTS MATCH CODEWORD?
904
NO
YES
REDUCED SEARCH FOR PILOT FRAME TIMING, PN OFFSET AND PHASE
906

FIG. 9

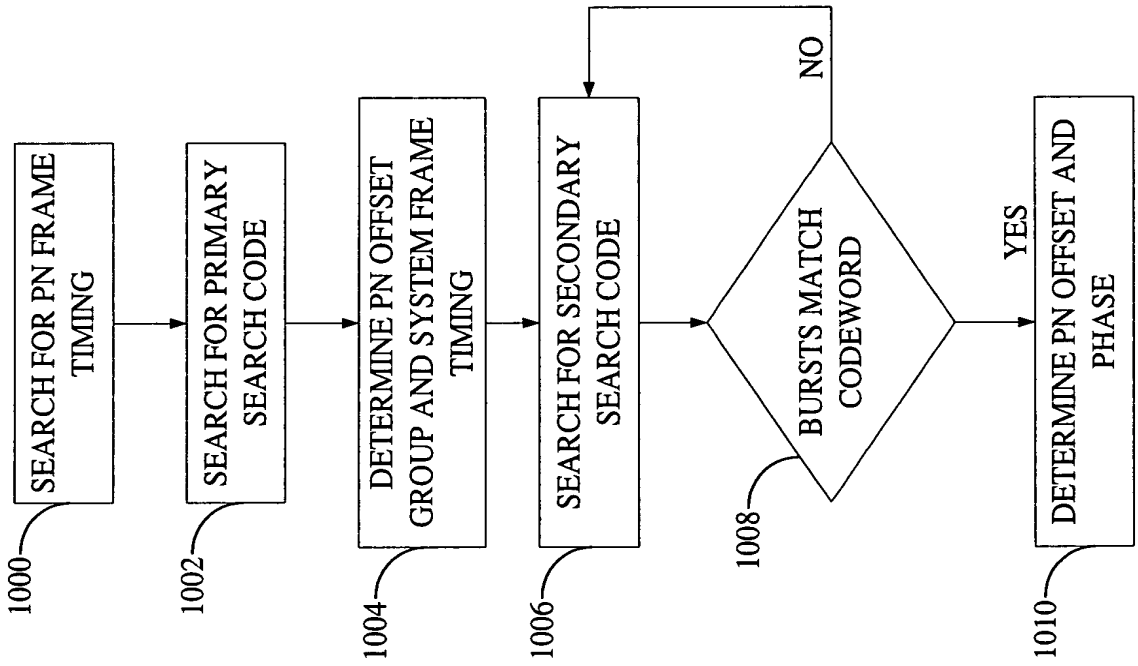
SEARCH FOR PN FRAME TIMING
1000
SEARCH FOR PRIMARY SEARCH CODE
1002
DETERMINE PN OFFSET GROUP AND SYSTEM FRAME TIMING
1004
SEARCH FOR SECONDARY SEARCH CODE
1006
BURSTS MATCH CODEWORD
1008
NO
YES
DETERMINE PN OFFSET AND PHASE
1010

FIG. 10